

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **SANADA, Yukitoshi**

Group Art Unit: **To Be Assigned**

Serial No.: **10/643,148**

Examiner: **To Be Assigned**

Filed: **August 19, 2003**

For: **UWB TRANSMITTER AND RECEIVER**

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 CFR 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

November 19, 2003

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. A copy of each of the document is attached.

The concise explanation of the relevance is also attached.

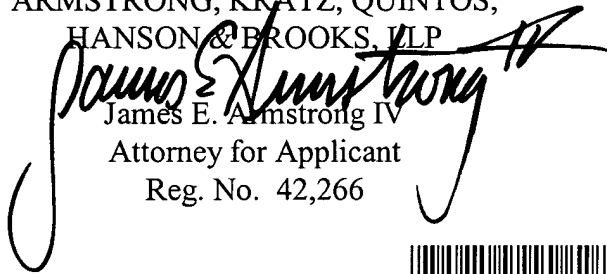
No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the issuance of a first official action on the merits or expiration of the three month period following the filing date or the entry of the national stage of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Form PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

The Commissioner is authorized to charge our Deposit Account No. 01-2340 for any fee which is deemed by the Patent and Trademark Office to be required to effect consideration of this statement.

Respectfully submitted,

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PATENT TRADEMARK OFFICE

Enclosures: PTO-1449 and references (1)  
The concise explanation of the relevance



<b>INFORMATION DISCLOSURE CITATION PTO-1449</b>	Atty. Docket No. <b>031017</b>	Serial No. <b>10/643,148</b>
	Applicant(s): <b>SANADA, Yukitoshi</b>	
	Filing Date: <b>August 19, 2003</b>	Group Art Unit: <b>To Be Assigned</b>

### U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Name	Date	Class	Subclass	Filing Date (If appropriate)
_____	AA					
_____	AB					
_____	AC					
_____	AD					
_____	AE					

### FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Translation (Yes or No)
_____	AF		
_____	AG		
_____	AH		
_____	AI		
_____	AJ		

### OTHER DOCUMENTS

_____	AK	Nikkei Electronics, [Ultra Wideband], March 11, 2002, pp. 55-66, Japan (Publication date: March 11, 2002)
_____	AL	
Examiner		Date Considered

**The concise explanation of the relevance**

- (1) Reference 1 (Fig. 6(b) on page 62) shows a prior UWB receiver like as showed in the present application's Fig. 4.